

IN THE SPECIFICATION

Page 1, between the title of the invention and the first line of the text, insert the following:

CROSS-REFERENCE TO RELATED APPLICATION

This Application is a Section 371 National Stage Application of International Application No. PCT/CN2004/001076, filed September 22, 2004 and published as WO 2005/043144 on May 12, 2005, not in English, the content of which is hereby incorporated by reference in its entirety

~~Technical Field~~

FIELD OF THE INVENTION

Replacement paragraph for the paragraph beginning at page 1, line 9:

~~Technology Background~~

BACKGROUND OF THE INVENTION

Replacement paragraphs for the paragraphs beginning at page 3, line 3 and ending at page 4, line 30:

~~According to the present invention, there is provided a containers/vehicles inspection system with adjustable radiation X ray angle, comprising: a detector arm rack provided in a inspection passage and equipped with a detector; a second collimator; a pulling vehicle for carrying containers/vehicles to be inspected to pass through the inspection passage; and an accelerator rack equipped with a accelerator, X ray produced by the accelerator is right opposite to a calibrator and a first collimator both which are arranged in order, the first collimator is right opposite to the second collimator so that the conical X-ray produced by the accelerator, after regulated into a sector, passes through articles to be inspected and then is received by the detector in the detector arm rack. The accelerator rack is composed of a horizontal regulation mechanism, which is connected to the base, for moving the base forward and afterward along the horizontal guide rail; a vertical regulation mechanism, which is provided in the vertical arm connected to the base, for moving~~

~~the bending framework up and down vertically; a rotary regulation mechanism, arranged between the horizontal end of said bending framework and said cantilever so as to make said cantilever rotate; and a pitching adjustment mechanism provided at the bottom end of said cantilever. Said accelerator is hinged with the pitching adjustment mechanism at the coaxial intersection of the cantilever and the pitching adjustment mechanism through a hinging shaft and provided over the base so as to make vertical pitching movements.~~

~~According to above technical scheme, said horizontal regulation mechanism is composed of a horizontal guide rail; a fifth handwheel mounted at the bottom end of said base; a fifth screw mounted in said base and connected to a rotary shaft of the fifth handwheel; and a fifth nut base, which is installed in said horizontal guide rail and threadedly connected with said fifth screw so as to through the thread set, make said base move forward and afterward along said horizontal guide rail.~~

~~According to above technical scheme, said vertical regulation mechanism is composed of a vertical guide rail; a fourth handwheel; a pinion connected to the fourth handwheel; a gearwheel for engaging with the pinion so as to form a reducer, both of which are installed on the upper top surface of said vertical arm; a fourth screw provided in said vertical arm and connected to a driving shaft of the gearwheel; and a fourth nut base, which is provided in the side arm of said bending framework and threadedly connected with the fourth screw so as to through the thread set, make said bending framework move up and down along said vertical guide rail.~~

~~According to above technical scheme, said rotary regulation mechanism is composed of a third handwheel provided on a horizontal end of said bending framework; a gear provided on the driving shaft of said third handwheel; and a rotary support, of which an inner tooth ring engages with said gear and is connected to said cantilever, and an outer ring of which is connected to the lower end surface of said bending framework; thus said cantilever can be rotated through the inner tooth ring of said rotary~~

~~support engaging with the gear.~~

~~According to above technical scheme, said pitching regulation mechanism is composed of a second handwheel; a worm connected to said second handwheel; a worm wheel engaged with said worm; and an accelerator support rack connected with a rotary shaft of said worm wheel, on which the second handwheel is provided, for realizing the change in sector elevation angle of main X ray beams produced by said accelerator through the worm and worm wheel set.~~

~~According to above technical scheme, said detector arm rack is in the mode of a bending beam or a combination mode of horizontal beam with vertical beam.~~

According to the present invention, there is provided a containers/vehicles inspection system with adjustable radiation X-ray angle, comprising: an inspection passage; a pulling vehicle for carrying the containers/vehicles to be inspected to pass through said inspection passage; an accelerator for emitting X-ray; and an accelerator rack for bearing said accelerator. Said an accelerator rack is composed of a rack including a base, a vertical arm vertically connected to the base, a bending framework vertically connected to said vertical arm, and a cantilever connected under said bending framework; a rotary adjustment mechanism arranged between the horizontal end of said bending framework and said cantilever so as to make said cantilever rotate horizontally; and a pitching adjustment mechanism provided at the bottom end of said cantilever; said accelerator is hinged with the pitching adjustment mechanism at the coaxial intersection of the cantilever and the pitching adjustment mechanism through a hinging shaft and provided over the base so as to make vertical pitching movements.

According to above technical scheme, said accelerator rack further comprises the horizontal regulation mechanism, which is connected to said base, for moving the base forward and afterward horizontally. The horizontal regulation mechanism is composed of a horizontal guide rail; a fifth driving device mounted at the

bottom end of said base; a fifth screw mounted in said base and connected to a rotary shaft of the fifth driving device; and a fifth nut base, which is installed in said horizontal guide rail and threadedly connected with said fifth screw so as to through the thread set, make said base move forward and afterward along said horizontal guide rail.

According to above technical scheme, said accelerator rack further comprises a vertical regulation mechanism, which is provided in the vertical arm, for moving the bending framework up and down vertically. The vertical regulation mechanism is composed of a vertical guide rail; a fourth driving device connected to a pinion ; a gearwheel for engaging with the pinion so as to form a reducer, both of which are installed on the upper top surface of said vertical arm; a fourth screw provided in said vertical arm and connected to a driving shaft of the gearwheel; and a fourth nut base, which is provided in the side arm of said bending framework and threadedly connected with the fourth screw so as to through the thread set, make said bending framework move up and down along said vertical guide rail.

According to above technical scheme, said rotary regulation mechanism is composed of a third driving device provided on a horizontal end of said bending framework; a gear provided on the driving shaft of said third driving device; and a rotary support, of which a inner tooth ring engages with said gear and is connected to said cantilever, and a outer ring of which is connected to the lower end surface of said bending framework; thus said cantilever can be rotated through the inner tooth ring of said rotary support engaging with the gear.

According to above technical scheme, said pitching regulation mechanism comprises a second driving device; a worm connected to said second driving device; a worm wheel engaged with said worm; and an accelerator support rack connected with a rotary shaft of said worm wheel, on which the second driving device is provided, for realizing the change in sector elevation angle of main X-ray beam produced by said accelerator through the worm and worm wheel set.

According to above technical scheme, a detector arm rack equipped with detectors and the second collimator is provided in said inspection passage; the X-ray produced by the accelerator is right opposite to the calibrator and the first collimator both which are arranged in order, and said first collimator is right opposite to said second collimator, so that the conical X-ray produced by said accelerator, after regulated into a sector shape, passes through the articles to be inspected and then is received by the detectors in the detector arm rack.

According to above technical scheme, said detector arm rack is in the mode of a bending beam or a combination mode of horizontal beam with vertical beam.